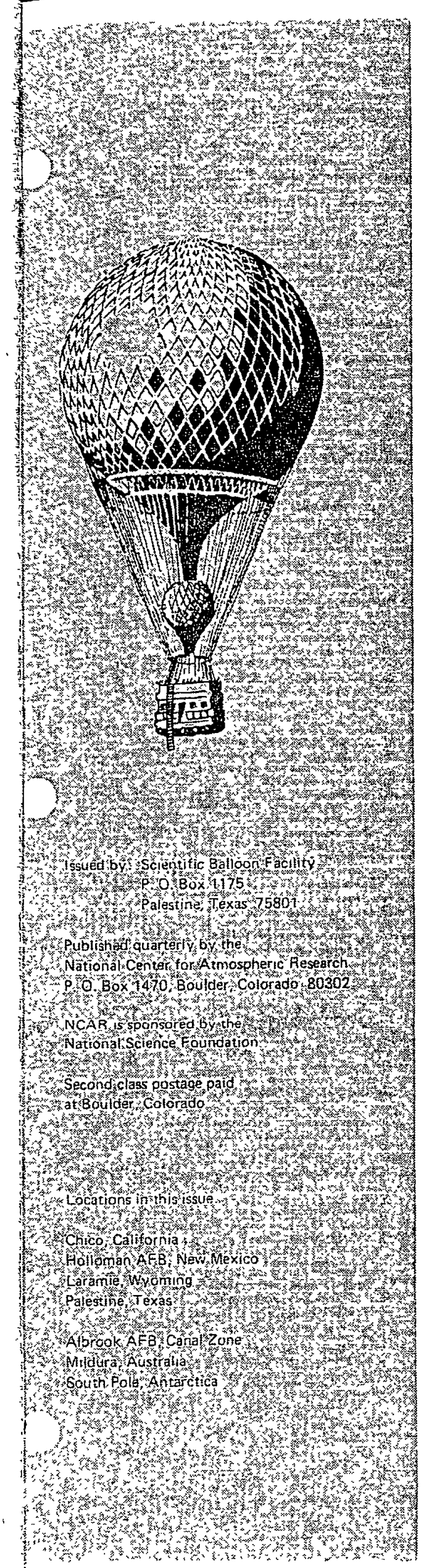

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BALLOON FLIGHT RECORD

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Locations in this issue

Chico, California
Holloman AFB, New Mexico
Laramie, Wyoming
Palestine, Texas

Albrook AFB, Canal Zone
Mildura, Australia
South Pole, Antarctica

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Jan. 6	Holloman AFB	AFCRL	Dr. Howell (Tufts Univ.)	AFCRL	5.140 million; 1.0 mil
Jan. 14	Holloman AFB	AFCRL	Capt. Jackson (AFCRL)	AFCRL	0.006 million; Nylon
Jan. 14	Mildura, Victoria, Australia	AEC	AEC	B.L.S., Mildura (1)	0.080 million; 1.5 mil
Jan. 15	Palestine,Texas	SRC United Kingdom (2)	Dr. D. Ramsden (Univ. of Southampton)	NCAR	11.1 million; .75 mil; 250 lb. load tapes; .75 mil cap
Jan. 15	Mildura, Victoria, Australia	AEC	AEC	B.L.S., Mildura (1)	0.450 million; 1.0 mil
Jan. 17	Mildura, Victoria, Australia	AEC	AEC	B.L.S., Mildura (1)	0.265 million; 1.5 mil
Jan. 17	Holloman AFB	AFCRL	Capt. Jackson (AFCRL)	AFCRL	0.045 million; Cotton & Neoprene
Jan. 18	Holloman AFB	AFCRL	Dr. Murcray (Univ. of Denver)	AFCRL	2.000 million; 1.5 mil
Jan. 21	South Pole, Antarctica	ONR	Drs. Rosen & Hofmann (Univ. of Wyoming)	Univ. of Wyoming	0.044 million; Neoprene; Probe

(1) Balloon Launching Station, Mildura, Victoria, Australia

(2) Science Research Council, United Kingdom

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
13.7	16.0	4204.0	IR Celestial Background Measurements	Successful flight
856.0	2.0	135.0	Balloon Components Test	Tethered system
31.8	4.3	456.0	AEC Sampling - CSIRO Piggyback-Sampling Dust Layers	Successful flight
3.63	6.0	1802.0	Develop techniques for low energy gamma ray astronomy	Successful flight
19.2	5.8	--	AEC Air Sampling; Piggy-back CSIRO Sampling Dust Layers	Successful flight
41.7	5.0	728.0	AEC Sampling - Also carried first flight test of Raven Trac Package. Piggyback-Adelaide Univ. Sun Seeker-CSIRO Melb., Photographing Cloud Layers-CSIRO Sydney-Photographing Hi-Alt. Dust Layers	Successful flight
794.0	7.0	631.0	Balloon Components Test	Tethered system
10.9	4.0	857.0	Infrared Solar Spectra	Successful flight
8.3	2.0	8.0	Ozone-sonde. Measured ozone & temperature	Successful flight

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Jan. 24	South Pole Antarctica	ONR	Drs. Rosen & Hofmann (Univ. of Wyoming)	Univ. of Wyoming	0.064 million; Neopren Probe
Jan. 31	Palestine,Texas	NCAR	J. Smalley (NCAR)	NCAR	.618 million; 1.0 mil; .001200 million; 1000 lb. load tapes 150 lb. load tapes
Jan. 31	Holloman AFB	US Army	Mr. Tremaine (US Army)	AFCRL	0.025 million; Dacron
Feb. 2	Holloman AFB	US Army	Mr. Tremaine (US Army)	AFCRL	0.025 million; Dacron
Feb. 3	Holloman AFB	US Army	Mr. Tremaine (US Army)	AFCRL	0.025 million; Dacron
Feb. 4	Palestine,Texas	NASA	Dr. E.L. Chupp (Univ. of New Hampshire)	NCAR	11.1 million; .60 mil; 200 lb load tapes; .60 mil cap
Feb. 4	Holloman AFB	US Army	Mr. Tremaine (US Army)	AFCRL	0.025 million; Dacron
Feb. 7	Chico MAP California	AFCRL	Major Burnett (AFCRL)	AFCRL	0.511 million; 2.0 mil
Feb. 11	Laramie, Wyoming	ONR	Drs. Rosen & Hofmann (Univ. of Wyoming)	Univ. of Wyoming	0.106 million; 0.5 mil
Feb. 14	Holloman AFB	AFCRL	Dr. Howell (Tufts Univ.)	AFCRL	5.140 million; 1.0 mil
Feb. 16	Palestine,Texas	NASA	J. Sparkman & J. Smalley (NCAR)	NCAR	.250 million; GT-12 Mylar; 6.87 million; 1.8 mil poly, 800 lb load tapes; (2) two 1.8 mil caps

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
8.7	3.0	25.0	Dustsonde. Measured particles, temperature and water vapor	Successful flight
12.8	0.2	103.0	Test of large super-pressure balloon.	Balloon failure
840.1	2.0	422.0	Sensor Measurements	Tethered system
840.1	3.0	422.0	Sensor Measurements	Tethered system
840.1	3.0	422.0	Sensor Measurements	Tethered system
3.42	4.1	1224.0	X-ray polarimeter designed to measure polarization of x-rays from the Crab Nebula	Successful flight
840.1	3.0	422.0	Sensor Measurements	Tethered system
17.3	5.0	456.0	UHF Relay Test	Successful flight
8.7	2.8	34.0	Dustsonde. Measured particles and temperature	Successful flight
13.5	14.0	4180.0	Observation of Venus and Mars	Successful flight
24.1	1.2	9401.0	Engineering evaluation of a heavy load tandem balloon system utilizing a scrim top balloon and a polyethylene main balloon	Successful flight

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Feb. 18	Palestine,Texas	NASA	Dr. K. Greisen (Cornell Univ.)	NCAR	20.8 million; .8 mil poly; .8 mil shell; 2 x .9 mil caps; reefing sleeve
Feb. 19	Palestine,Texas	NRL	Dr. J. Kurfess (Naval Research Lab.)	NCAR	11.1 million; .75 mil; .75 mil cap; 250 lb load tapes
Mar. 3	Holloman AFB	AFCRL	Mr. Lapping (AFCRL)	AFCRL	2.940 million; 1.5 mil
Mar. 7	Holloman AFB	AFCRL	Mr. Giannetti (AFCRL)	AFCRL	0.006 million; Nylon
Mar. 7	Chico MAP California	NASA	Major Burnett (AFCRL)	AFCRL	0.250 million; 0.5 mil
Mar. 9	Holloman AFB	AFCRL	Mr. Korn (AFCRL)	AFCRL	0.804 million; 2.0 mil
Mar. 14	Chico MAP California	AFCRL	Major Burnett (AFCRL)	AFCRL	0.201 million; 1.5 mil
Mar. 16	Holloman AFB	AFCRL	Mr. Giannetti (AFCRL)	AFCRL	0.006 million; Nylon
Mar. 17	Palestine,Texas	NASA	J. Sparkman (NCAR)	NCAR	.322875 million; 4.0 mil poly; 800 lb load tapes; 2 mil reefing sleeve with 1.0 mil insert tear panel; 18.9 million 1.5 mil poly; 2.0 mil cap; reefing sleeve of 3.0 mil high slip; 650 lb load tapes
Mar. 17	Holloman AFB	AFCRL	Mr. Giannetti (AFCRL)	AFCRL	0.006 million; Nylon

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
--	--	4471.0	High energy gamma ray astronomy	Balloon failure
3.00	1.2	1170.0	Search for nuclear gamma ray emission associated with intense solar flare phenomena	Successful flight
9.7	5.0	1337.0	Viking Instrumentation Test	Successful flight
856.0	1.0	135.0	Tethered Balloon Instrumentation Test	Tethered system
4.7	4.0	30.0	Instrumentation Test	Successful flight
31.8	14.0	1571.0	Powered Balloon Experiment	Successful flight
7.3	9.0	443.0	UHF Repeater Test	Successful flight
806.1	2.0	873.0	Tethered Balloon Instrumentation Test	Tethered system
8.50	1.6	7424.0	Engineering evaluation of a heavy load tandem balloon system utilizing a polyethylene top balloon and a polyethylene main balloon	Successful flight
806.1	1.0	873.0	Tethered Balloon Instrumentation Test	Tethered system

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Mar. 21	Laramie, Wyoming	ONR	Drs. Rosen, Hofmann & Pepin (Univ. of Wyoming)	Univ. of Wyoming	0.106 million; 0.5 mil
Mar. 21	Albrook AFB Canal Zone	AEC	AEC	AFCRL	0.804 million; 2.0 mil
Mar. 23	Palestine,Texas	NCAR	Dr. D. Ehhalt (NCAR)	NCAR	1.5 million; .75 mil; 200 lb load tapes; valve
Mar. 23	Albrook AFB Canal Zone	AEC	AEC	AFCRL	0.804 million; 2.0 mil
Mar. 24	Albrook AFB Canal Zone	AEC	AEC	AFCRL	0.804 million; 2.0 mil
Mar. 27	Laramie, Wyoming	ONR	Drs. Rosen-Hofmann & Pepin (Univ. of Wyoming)	Univ. of Wyoming	0.008 million; Rubber; Probe
Mar. 28	Palestine,Texas	NCAR	NCAR	NCAR	5.25 million; 0.7 mil; 150 lb load tapes
Mar. 29	Holloman AFB	AFCRL	Dr. Fenn (AFCRL)	AFCRL	0.100 million; Nylon
Mar. 30	Holloman AFB	AFCRL	Dr. Fenn (AFCRL)	AFCRL	0.100 million; Nylon
Mar. 31	Palestine,Texas	NCAR	Dr. D. Ehhalt (NCAR)	NCAR	1.5 million; .75 mil; 200 lb load tapes

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
15.8	2.3	97.0	Australian sampler & Wyoming dust counter. Collected dust, measured dust & temperature	Successful flight
47.0	6.0	528.0	Pollutant and Particulate Debris Collection	Successful flight
--	--	806.0	Air sampling system designed to collect eight 4-liter air samples in evacuated stainless vessels at selected altitudes during controlled payload descent	Balloon failure
15.5	6.0	512.0	Pollutant Collection	Successful flight
30.2	6.0	447.0	Pollutant and Particulate Debris Collection	Successful flight
13.7	3.0	--	Measured water vapor, temperature and ozone	Successful flight
--	0.1	353.0	Inflation and release of balloon system	Successful flight
642.0	6.0	2026.0	Aerosol Particles	Tethered system
617.1	8.0	2026.0	Aerosol Particles	Tethered system
10.6	1.5	794.0	Air sampling system designed to collect eight 4-liter air samples in evacuated stainless vessels at selected altitudes during controlled payload descent	Successful flight

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Mar. 31	Palestine, Texas	NASA	Dr. D. Kniffen (NASA/GSFC)	NCAR	30.48 million; .6 mil; 2 x .7 mil caps; 300 lb dead load test
Mar. 31	Holloman AFB	AFCRL	Dr. Fenn (AFCRL)	AFCRL	0.100 million; Nylon
April 3	Holloman AFB	AFCRL	Dr. Fenn (AFCRL)	AFCRL	0.100 million; Nylon
April 4	Holloman AFB	AEC	AEC	AFCRL	0.804 million; 2.0 mil
April 4	Holloman AFB	AFCRL	Dr. Fenn (AFCRL)	AFCRL	0.100 million; Nylon
April 6	Holloman AFB	AEC	AEC	AFCRL	2.010 million; 1.5 mil
April 7	Holloman AFB	AEC	AEC	AFCRL	0.804 million; 2.0 mil

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
2.74	6.0	2719.0	Digitized spark chamber detector to search for energetic gamma radiation from the planet Jupiter and from the x-ray star in the Scorpio constellation	Successful flight
619.6	4.0	2026.0	Aerosol Particles	Tethered system
619.6	6.0	810.0	Aerosol Particles	Tethered system
42.3	4.0	525.0	Pollutant and Particulate Debris Collection	Successful flight
694.3	5.0	810.0	Aerosol Particles	Tethered system
7.6	6.0	474.0	Pollutant & Particulate Debris Collection	Successful flight
25.7	4.0	752.0	Pollutant and Particulate Debris Collection	Successful flight